

① All quantitation limits were only corrected for %M_R but not for dilution factors

② Samples were first analysed on DB-17 column w/o dilutions from 11/20 - 11/21/97

All but 97C04966 were reanalyzed on DB-608 column w/dilutions at 1:2, 1:5, 1:10, and 1:200 (97C4976) from 11/23 - 11/24/97

All but 97C04966 were analyzed again at 1:10, 1:25, and 1:2000 on DB-17 ~~from~~ on 11/27

⇒ Although the dilutions were performed on 2 different columns, these ~~data~~ analyses were not at ~~at~~ different dilution factors.

③ IRAL 11/23/97 on DB-608

- std AR1254@0.1 was injected on 11/24/97 1242 while all other AR1254 stds were injected on 11/23/97 at 03:58 - 06:27

- AR1016 $r^2 < 0.995$ for 1 peak ⇒ all quantitation limits of AR1016 must be "J"

- all CCV no good (except 11/24/97 10:30 injection)

⇒ all first dilution analyses "J" 1016 and 1260

First dilution
analyses should
be used as
initial analysis.



Case Narrative

Method: 8080A
Analysis: Polychlorinated Biphenyls
Preparation SOP No.: OE-SW-3550
Analysis SOP No.: OE-SW-8080
Matrix: Soil

Client: Roy F. Weston
Project: EPA Region II START #G2
SDG No.: VVVND1
DCL Account: 3008
DCL Set ID: 97C-0423-01

General Set Information: There were twenty soil samples received in the set. The sample was batched with a method blank sample, a laboratory control sample, a matrix spike sample and a amtrix spike duplicate sample for polychlorinated biphenyl analysis by EPA SW-846 Method 8080A.

Method Summary: Each sample was extracted into methylene chloride and concentrated in a K-D apparatus. A solvent exchange to hexane was performed and the final extract volume was adjusted to 10 mL. Analysis was performed by single column capillary gas chromatography with electron capture detector.

Sample Preparation: The samples were prepared according to the published procedures found in EPA SW-846 Method 3550C, modified to accommodate the sample matrix. Due to the appearance of the final extracts, prior to sample analysis, the sample extracts were washed with concentrated sulfuric acid to prevent instrument contamination and to aid in PCB peak pattern identification (EPA SW-846 Method 3665) and sulfur cleaned with mercury (EPA SW-846 Method 3660A).

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: The method blank sample, QC and sample 97C04966 were not reanalyzed at dilutions. Sample 97C04971 and 97C04979 were reanalyzed at 1:2 dilutions. Samples 97C04963 and 97C04970 were reanalyzed at 1:10 dilutions. Samples 97C04960, 97C04961, 97C04962, 97C04964, 97C04965, 97C04967, 97C04968, 97C04969, 97C04969MS, 97C04969MSD, 97C04972, 97C04973, 97C04974, 97C04975, 97C04977 and 97C04978 were reanalyzed at 1:25 dilutions. Sample 97C04976 was reanalyzed at a 1:2000 dilution.

Method and Sample QC Data:

Method Blank (BL): No target analytes were detected in the method blank.

Laboratory Control Sample (QC): The QC was spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. QC recoveries were within control limits.

0003

wet weight basis

MS/MSD Sample(s): The matrix spike and matrix spike duplicate samples are prepared from sample 97C04969. Samples were spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. Due to the high concentration of PCB-1254 in the parent sample, the spike samples required 1:25 dilutions to effectively quantitate the PCBs. PCB-1260 spike recoveries were in control. PCB-1016 spike recoveries were low and out of control. The relative percent difference between the two spike recoveries were within method control limits for both PCB-1016 and 1260.

wet wt. basis

Surrogates: All samples were spiked with 16.7 ug/kilogram of surrogate standards tetrachloro-m-xylene and dibutylchorendate. Even though the method only requires one surrogate to be within control limits, two are spiked. This is done since the retention time window for tetrachloro-m-xylene falls in the same region as PCB 1016 while the retention time window for dibutylchlorendate falls in the same region as PCB 1260. If high concentrations of either PCB are present in the sample, the remaining surrogate can still be effectively quantitated, maintaining acceptable quality control. All tetrachloro-m-xylene recoveries were within the method performance control limits. All dibutylchlorendate surrogate recoveries were within the method performance control limits with exception of the recoveryies for samples 97C04960, 97C04961, 97C04964 and 97C04976. Therefore, since all tetrachloro-m-xylene surrogates were within the method control limits for all samples, method acceptance criteria was met for all samples.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

Initial Calibration Verification: All analyte recoveries were within $\pm 25\%$.

Continuing Calibration Verification: All continuing calibration verification standard recoveries were within $\pm 15\%$ with exception of the dibutylchlorendate surrogate recoveries for CCV#3 (-88%), CCV#4 (-88%) and CCV#5 (-87%).

NC/CAR: No Non-conformance/Corrective Action Reports were required for this set.

Sample Calculation: Analyte concentrations in sample extracts were determined by interpolation from quadratic regression of standárd response versus concentration. Final concentration if ug/kilogram was determined from the equation

$$C_s = \frac{C_E V_E DF}{V_s}$$

where C_s = Analyte concentration in sample (ug/kilogram)

C_E = Analyte concentration in extract (mg/mL)

V_E = Final volume of extract (mL)

DF = Dilution factor

V_s = Initial aliquot of sample taken for preparation (Kilogram)

0004

Miscellaneous Comments: Sample identification is as follows:

	DCL Sample ID	RFW Sample ID
AR1254 from 1:25	97C04960 1:10	1:25 WWWSS2
1:25	97C04961 1:5	1:25 WWWND1
1:25	97C04962 1:5	1:25 WWWSD2
1:10	97C04963 1:2	1:10 WWWND2
1:25	97C04964 1:10	1:25 WWWSS1
1:25	97C04965 1:10	1:25 WWWSD1
	97C04966	WWWSED(D)
1:25	97C04967 1:5	1:25 WWWNS3
1:25	97C04968 1:10	1:25 WWWNS2
1:25	97C04969 1:10	1:25 WWWNS1

DCL Sample ID	RFW Sample ID
97C04970 1:5	1:10 WWWSED(S)
97C04971 1:10	1:25 VVVSED(S)
97C04972 1:10	1:25 VVVSD2
97C04973 1:5	1:25 VVVND1
97C04974 1:5	1:25 VVVNS1
97C04975 1:10	1:25 VVVND2
97C04976 1:20	1:25 VVVSD1
97C04977 1:5	1:25 VVVNS2
97C04978 1:10	1:25 VVVSS1
97C04979 1:10	1:2 VVVSS2

AR1254

all others from 1:1

Richard W. Wade

December 8, 1997

Richard W. Wade, DCL Section Manager

0005



FORM K
RUN LOG

Form RLIMS63-V1.0

11269713061358

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Run ID.....: R97BT000
 Start Date....: 18-NOV-1997 19:42
 Method.....: 8082
 Init Calib ID....: C97BT000
 Init Calib Date...: 18-NOV-1997 23:04

Date Printed.....: 26-NOV-1997 13:06

Instrument Name...: GC/ECD-7
 Column Name.....: DB-17
 Detector Name....: ECD

Sample Name	Dilution	Date Acquired
PRIME	1	18-NOV-1997 19:42
PCB221_2.0	1	18-NOV-1997 20:22
PCB232_2.0	1	18-NOV-1997 21:03
PCB242_2.0	1	18-NOV-1997 21:43
PCB248_2.0	1	18-NOV-1997 22:24
\$1254_2.0	1	18-NOV-1997 23:04
\$1254_1.0	1	18-NOV-1997 23:44
\$1254_0.20	1	19-NOV-1997 00:25
\$1254_0.10	1	19-NOV-1997 01:05
\$1254_.02	1	19-NOV-1997 01:45
ICV1254_1.0	1	19-NOV-1997 02:26
\$1660_2.0	1	19-NOV-1997 03:06
\$1660_1.0	1	19-NOV-1997 03:46
\$1660_.20	1	19-NOV-1997 04:26
\$1660_.10	1	19-NOV-1997 05:07
\$1660_.02	1	19-NOV-1997 05:47
ICV_1660_1.0	1	19-NOV-1997 06:27
CCV_1660_1.0	1	20-NOV-1997 18:51
BL-141985-1	1	20-NOV-1997 19:31
QC-141985-1	1	20-NOV-1997 20:12
97C04960 See dil	1	20-NOV-1997 20:52
97C04961 NG	1	20-NOV-1997 21:32
97C04962 See dil	1	20-NOV-1997 22:13
97C04963	1	20-NOV-1997 22:53
97C04964	1	20-NOV-1997 23:33
97C04965	1	21-NOV-1997 00:14
97C04966	1	21-NOV-1997 00:54
97C04967	1	21-NOV-1997 01:34
CCV_1660_1.0	1	21-NOV-1997 02:15
97C04968	1	21-NOV-1997 02:55
97C04969	1	21-NOV-1997 03:35
97C04969MS	1	21-NOV-1997 04:16
97C04969MSD	1	21-NOV-1997 04:56
97C04970	1	21-NOV-1997 05:36
97C04971	1	21-NOV-1997 06:16
97C04972	1	21-NOV-1997 06:57
97C04973	1	21-NOV-1997 07:37
97C04974	1	21-NOV-1997 08:17
97C04975	1	21-NOV-1997 08:57
CCV_1660_1.0	1	21-NOV-1997 09:38
97C04976	1	21-NOV-1997 10:18
97C04977 See dil	1	21-NOV-1997 10:58
CCV_1660_1.0	1	21-NOV-1997 11:39
97C04976 See dil	1	21-NOV-1997 12:19

Sample Name	Dilution	Date Acquired
97C04977	See dil	1 21-NOV-1997 12:59
97C04978	1	21-NOV-1997 13:40
97C04979	1	21-NOV-1997 14:20
CCV_1660_1.0	1	21-NOV-1997 15:00

1254+1260

Only 97C04966 should be reported from this analysis. All other samples should be reported from dilutions (11/23/97) as first analysis.

0064



FORM K
RUN LOG

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Page 1



R97BR000

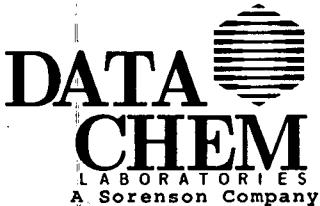
Run ID.....: R97BR000
Start Date....: 22-NOV-1997 21:06
Method.....: 8080A
Init Calib ID....: C97BR000
Init Calib Date...: 23-NOV-1997 00:13

Date Printed.....: 26-NOV-1997 13:32

Instrument Name...: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Sample Name	Dilution	Date Acquired
PRIME	1	22-NOV-1997 21:06
PCB221_2.0	1	22-NOV-1997 21:44
PCB232_2.0	1	22-NOV-1997 22:21
PCB242_2.0	1	22-NOV-1997 22:59
PCB248_2.0	1	22-NOV-1997 23:36
\$1660_2.0	1	23-NOV-1997 00:13
\$1660_1.0	1	23-NOV-1997 00:51
\$1660_.20	1	23-NOV-1997 01:28
\$1660_.10	1	23-NOV-1997 02:06
\$1660_.02	1	23-NOV-1997 02:43
ICV_1660_1.0	1	23-NOV-1997 03:20
\$1254_2.0	1	23-NOV-1997 03:58
\$1254_1.0	1	23-NOV-1997 04:35
\$1254_0.20	1	23-NOV-1997 05:13
\$1254_0.10	1	23-NOV-1997 05:50
\$1254_0.02	1	23-NOV-1997 06:27
ICV1254_1.0	1	23-NOV-1997 07:05
97C05040	5	23-NOV-1997 07:42
97C05042	5	23-NOV-1997 08:20
97C05043	25	23-NOV-1997 08:57
97C05044	20	23-NOV-1997 09:34
97C05045	5	23-NOV-1997 10:12
97C05046	5	23-NOV-1997 10:49
97C05047	2000	23-NOV-1997 11:26
97C05048	20	23-NOV-1997 12:04
97C05049	50	23-NOV-1997 12:41
97C05050	50	23-NOV-1997 13:19
CCV_1660_1.0	1	23-NOV-1997 13:56
97C05051	1000	23-NOV-1997 14:33
97C05052	10	23-NOV-1997 15:11
97C05053	1	23-NOV-1997 15:48
97C05054	500	23-NOV-1997 16:25
97C05055	50	23-NOV-1997 17:03
97C05055MS	50	23-NOV-1997 17:40
97C05055MSD	50	23-NOV-1997 18:17
97C05056	50	23-NOV-1997 18:55
97C05057	25	23-NOV-1997 19:32
97C05058	25	23-NOV-1997 20:10
CCV_1660_1.0	1	23-NOV-1997 20:47
97C05059	1	23-NOV-1997 21:24
97C04960	10	23-NOV-1997 22:02
97C04961	see dil	5 23-NOV-1997 22:39
97C04962	5	23-NOV-1997 23:16
97C04963	see dil	2 23-NOV-1997 23:54

Sample Name	Dilution	Date Acquired
97C04964	10	24-NOV-1997 00:31
97C04965	10	24-NOV-1997 01:08
97C04967	5	24-NOV-1997 01:46
97C04968	10	24-NOV-1997 02:23
97C04969	10	24-NOV-1997 03:01
CCV_1660_1.0	1	24-NOV-1997 03:38
97C04969MS	10	24-NOV-1997 04:15
97C04969MSD	10	24-NOV-1997 04:53
97C04970	5	24-NOV-1997 05:30
97C04971	2	24-NOV-1997 06:08
97C04972	1254	10 24-NOV-1997 06:45
97C04973	1254+1260	5 24-NOV-1997 07:22
97C04974	1254+1260	5 24-NOV-1997 08:00
97C04975	10	24-NOV-1997 08:37
97C04976	see dil	200 24-NOV-1997 09:15
97C04977	1254	5 24-NOV-1997 09:52
CCV_1660_1.0	1	24-NOV-1997 10:30
\$1254_0.10R	1	24-NOV-1997 12:42
97C04978	1254	10 24-NOV-1997 13:20
97C04979	1254	2 24-NOV-1997 13:57
BL-142186-1	1	24-NOV-1997 14:35
BL-142186-2	1	24-NOV-1997 15:12
QC-142186-1	1	24-NOV-1997 15:49
QC-142186-2	1	24-NOV-1997 16:27
97E03234	1	24-NOV-1997 17:05
97E03234MS	1	24-NOV-1997 17:42
97E03234MSD	1	24-NOV-1997 18:20
97E03235	1	24-NOV-1997 18:57
CCV_1660_1.0	1	24-NOV-1997 19:34
97E03235MS	1	24-NOV-1997 20:12
97E03235MSD	1	24-NOV-1997 20:49
97E03236	1	24-NOV-1997 21:27
97E03244	1	24-NOV-1997 22:04
97E03245	1	24-NOV-1997 22:41
97E03246	1	24-NOV-1997 23:19
97E03247	1	24-NOV-1997 23:56
97E03248	1	25-NOV-1997 00:33
97E03249	1	25-NOV-1997 01:11
97E03250	1	25-NOV-1997 01:48
CCV_1660_1.0	1	25-NOV-1997 02:26
97E03251	1	25-NOV-1997 03:03
97E03252	1	25-NOV-1997 03:40
97E03253	1	25-NOV-1997 04:18
97E03254	1	25-NOV-1997 04:55



FORM K
RUN LOG

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R97BR000

Run ID.....: R97BR000
Start Date....: 22-NOV-1997 21:06
Method.....: 8060A
Init Calib ID....: C97BR000
Init Calib Date...: 23-NOV-1997 00:13

Date Printed.....: 26-NOV-1997 13:32

Instrument Name...: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Sample Name	Dilution	Date Acquired
97E03255	1	25-NOV-1997 05:32
97E03256	1	25-NOV-1997 06:10
97E03257	1	25-NOV-1997 06:47
97E03258	1	25-NOV-1997 07:24
97E03259	1	25-NOV-1997 08:02
97E03260	1	25-NOV-1997 08:39
CCV 1660 1.0	1	25-NOV-1997 09:17
97E03261	1	25-NOV-1997 09:54
97E03262	1	25-NOV-1997 10:31
97E03263	1	25-NOV-1997 11:09
97E03264	1	25-NOV-1997 11:46
97E03265	1	25-NOV-1997 12:23
CCV 1660 1.0	1	25-NOV-1997 13:01

0090



**FORM K
RUN LOG**

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11289713234514
Page 1



R97BW000

Run ID.....: R97BW000
Start Date....: 26-NOV-1997 14:52
Method.....: 8082

Init Calib ID....: C97BW000
Init Calib Date...: 26-NOV-1997 18:14

Date Printed....: 28-NOV-1997 13:23

Instrument Name...: GC/ECD-7
Column Name.....: DB-17
Detector Name....: ECD

Sample Name	Dilution	Date Acquired
PRIME	1	26-NOV-1997 14:52
PCB221_2.0	1	26-NOV-1997 15:32
PCB232_2.0	1	26-NOV-1997 16:13
PCB242_2.0	1	26-NOV-1997 16:53
PCB248_2.0	1	26-NOV-1997 17:34
\$1660_2.0	1	26-NOV-1997 18:14
\$1660_1.0	1	26-NOV-1997 18:55
\$1660_.20	1	26-NOV-1997 19:35
\$1660_.10	1	26-NOV-1997 20:15
\$1660_.02	1	26-NOV-1997 20:56
ICV_1660_1.0	1	26-NOV-1997 21:36
\$1254_2.0	1	26-NOV-1997 22:17
\$1254_1.0	1	26-NOV-1997 22:57
\$1254_0.20	1	26-NOV-1997 23:37
\$1254_0.10	1	27-NOV-1997 00:18
\$1254_.02	1	27-NOV-1997 00:58
ICV1254_1.0	1	27-NOV-1997 01:38
97C04960	25	27-NOV-1997 02:19
97C04961	25	27-NOV-1997 02:59
97C04962	25	27-NOV-1997 03:39
97C04963	10	27-NOV-1997 04:20
97C04964	25	27-NOV-1997 05:00
97C04965	25	27-NOV-1997 05:40
97C04967	25	27-NOV-1997 06:21
97C04968	25	27-NOV-1997 07:01
97C04969	25	27-NOV-1997 07:41
97C04969MS	25	27-NOV-1997 08:22
CCV_1660_1.0	1	27-NOV-1997 09:02
97C04969MSD	25	27-NOV-1997 09:42
97C04970	10	27-NOV-1997 10:22
97C04971	2	27-NOV-1997 11:03
97C04972	25	27-NOV-1997 11:43
97C04973	25	27-NOV-1997 12:23
97C04974	25	27-NOV-1997 13:04
97C04975	25	27-NOV-1997 13:44
97C04976	2000	27-NOV-1997 14:24
97C04977	25	27-NOV-1997 15:04
97C04978	25	27-NOV-1997 15:45
CCV_1660_1.0	1	27-NOV-1997 16:25
97C04979	2	27-NOV-1997 17:05
BL-142186-1	10	27-NOV-1997 17:46
BL-142186-2	10	27-NOV-1997 18:26
QC-142186-1	10	27-NOV-1997 19:06
QC-142186-2	10	27-NOV-1997 19:47

Sample Name	Dilution	Date Acquired
97E03234	10	27-NOV-1997 20:27
97E03234MS	10	27-NOV-1997 21:07
97E03234MSD	10	27-NOV-1997 21:48
97E03235	10	27-NOV-1997 22:28
97E03235MS	10	27-NOV-1997 23:08
CCV_1660_1.0	1	27-NOV-1997 23:48
97E03235MSD	10	28-NOV-1997 00:29
97E03236	10	28-NOV-1997 01:09
97E03244	10	28-NOV-1997 01:49
97E03245	10	28-NOV-1997 02:30
97E03246	10	28-NOV-1997 03:10
97E03247	10	28-NOV-1997 03:50
97E03248	10	28-NOV-1997 04:31
97E03249	10	28-NOV-1997 05:11
97E03250	10	28-NOV-1997 05:51
97E03251	10	28-NOV-1997 06:32
CCV_1660_1.0	1	28-NOV-1997 07:12
97E03252	10	28-NOV-1997 07:52
97E03253	10	28-NOV-1997 08:32
97E03254	10	28-NOV-1997 09:13
97E03255	10	28-NOV-1997 09:53
97E03256	10	28-NOV-1997 10:33
97E03257	10	28-NOV-1997 11:14
97E03258	10	28-NOV-1997 11:54

CONC. VERIFICATION BY QUADRATIC MODEL

WWDI

SDG LLS ED

	TCMX				DBC			
	Y	CONC.	%R	DF	Y	CONC.	%R	
BLANK	45881	0.05110	102	1	70067	0.060	120	
QC-141985-1	41824	0.04648	93	1	62921	0.054	107	
97C04966	41975	0.04665	93	✓	41397	0.035	70	
97C04960	43616	0.04852	97	1	122549	0.107	215	
97C04961	30149	0.03341	67	1	17264	0.015	30	
97C04962	35584	0.03946	79	1	55972	0.048	95	
97C04963	36419	0.04039	81	1	41205	0.035	70	
97C04964	37919	0.04207	84	1	89956	0.077	155	
97C04965	38974	0.04326	87	1	69441	0.059	119	
97C04967	34953	0.03875	78	1	35358	0.030	60	
97C04968	39409	0.04375	88	1	51484	0.044	87	
97C04969	41049	0.04561	91	1	41816	0.035	71	
97C04969MS	39919	0.04433	89	1	38712	0.033	66	
97C04969MSD	38467	0.04269	85	1	42277	0.036	72	
97C04970	40980	0.04553	91	1	40693	0.035	69	
97C04971	37495	0.04160	83	1	36661	0.031	62	
97C04972	40756	0.04527	91	1	59241	0.050	101	
97C04973	35603	0.03948	79	1	33784	0.029	57	
97C04974	36669	0.04067	81	1	35871	0.030	61	
97C04975	36031	0.03996	80	✓	33060	0.028	56	
97C04976	① 38396	36718	0.04073	0.04261	81 84286	825601	#NUM! #NUM!	
97C04977	① 35048	38448	0.04267	0.0386	85 37781	40694	0.035 0.03269 64	
97C04978	37949	0.04211	84	✓	1	66567	0.057	
97C04979	42206	0.04692	94	✓	47816	0.041	81	
97C04960	8557	0.00532	106	10	50101	0.051	1012*	
97C04961	10380	0.00672	67	5	30961	0.031	312*	
97C04962	13048	0.00877	88	5	38309	0.039	387*	
97C04963	34282	0.02521	101	2	72374	0.073	293*	
97C04964	7048	0.00417	83	10	37583	0.038	759*	
97C04965	6298	0.00360	72	10	47141	0.048	952*	
97C04967	11609	0.00766	77	5	50538	0.051	510*	
97C04968	6166	0.00349	70	10	28050	0.028	566*	
97C04969	8032	0.00492	98	10	33955	0.034	685*	
97C04969MS	6285	0.00359	72	10	31650	0.032	639*	
97C04969MSD	7428	0.00446	89	10	35705	0.036	721*	
97C04970	12820	0.00859	86	5	25204	0.025	254*	
97C04971	30232	0.02205	88	2	21916	0.022	88	
97C04972	4904	0.00253	51	10	23916	0.024	483*	
97C04973	11629	0.00768	77	5	28712	0.029	290*	
97C04974	14989	0.01026	103	5	49703	0.050	502*	
97C04975	6457	0.00372	74	10	29069	0.029	587*	
97C04976	15175	0.01040	4161*	200	290612	0.298	119225*	
97C04977	11787	0.00780	78	5	39665	0.040	400*	
97C04978	4332	0.00209	42	10	18954	0.019	383*	
97C04979	33065	0.02426	97	2	26877	0.027	108*	

VVPPD

CONC. VERIFICATION BY QUADRATIC MODEL

97C04960	2313	0.00142	71	25	12496	0.006	301
97C04961	2189	0.00130	65	25	17583	0.008	421
97C04962	2418	0.00152	76	25	4921	0.002	122
97C04963	4781	0.00384	77	10	32467	0.015	310
97C04964	2448	0.00155	78	25	11779	0.006	284
97C04965	2108	0.00122	61	25	4626	0.002	115
97C04967	2671	0.00177	89	25	31798	0.015	759
97C04968	2092	0.00120	60	25	31473	0.015	751
97C04969	2694	0.00179	90	25	33709	0.016	804
97C04969MS	2155	0.00126	63	25	37711	0.018	900
97C04969MSD	2583	0.00168	84	25	37046	0.018	884
97C04970	5174	0.00423	85	10	33318	0.016	318
97C04971	28095	0.02698	108	2	46260	0.022	88
97C04972	2418	0.00152	76	25	38906	0.019	928
97C04973	2395	0.00150	75	25	17252	0.008	413
97C04974	2086	0.00120	60	25	22842	0.011	546
97C04975	2409	0.00151	76	25	31383	0.015	749
97C04976	0	-0.00085	-3389	2000	3036	0.002	6196
97C04977	2282	0.00139	69	25	23927	0.011	571
97C04978	2404	0.00151	75	25	7745	0.004	188
97C04979	29531	0.02842	114	2	52314	0.025	100

NAME
ADDRESS

1-860-543-1495
Female Solo Nite Watch
WFME

CONC. VERIFICATION BY QUADRATIC MODEL FOR AR1254

F.V.= 10.mL SDG# LLLSED	CONC.= (-B+SQRT(B^2-4AC))/(2A) in ug/mL in extract												TOTAL		FINAL	
	AR1254-1		AR1254-2		AR1254-3		AR1254-4		AR1254-5		CONC. in extract	DF	%M	CONC ug/Kg		
	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.						
BLANK		0.000		-0.001		-0.002		0.000		0.001	-0.002	1	0	-1		
QC-141985-1		0.000		-0.001		-0.002		0.000		0.001	-0.002	1	0	-1		
97C04966	13550	0.058	46420	0.114	34897	0.193	26082	0.084	12894	0.057	0.505	1	12.9	193		
97C04979	27268	0.124	92885	0.280	63342	0.537	65720	0.240	59654	0.294	1.474	1	50.6	995 <i>X/1000</i>		
97C04962	13547	0.134	13671	0.359	131683	0.799	102642	0.501	24489	0.265	2.058	5	18.2	4194		
97C04968	16187	0.160	16580	0.434	132244	0.808	90681	0.431	38144	0.440	2.273	10	39.5	12522		
97C04969	18130	0.180	21472	0.559	129654	0.770	94321	0.452	38457	0.445	2.405	10	15.1	9442		
97C04969MS	15877	0.157	18442	0.481	117697	0.636	85226	0.400	34312	0.389	2.064	10	15.1	8102		
97C04969MSD	16055	0.159	18655	0.487	119393	0.653	87389	0.412	35043	0.398	2.109	10	15.1	8280		
97C04970	19361	0.192	20341	0.530	112995	0.594	81100	0.377	29761	0.330	2.023	5	39.1	5537		
97C04971 <i>All from manual integration</i>	29144	0.289	30809	0.796	91531	0.436	64762	0.291	27158	0.297	2.109	2	34.7	2153		
97C04972	11747	0.116	12138	0.319	91867	0.438	55454	0.245	9185	0.093	1.211	10	42.7	7047		
97C04978	9230	0.091	8863	0.234	86961	0.407	64667	0.291	23754	0.256	1.280	10	38.1	6891		
97C04979	10998	0.109	12485	0.328	64662	0.282	52302	0.230	17962	0.189	1.137	2	50.6	1535		
97C04960	46878	0.169	22499	0.095	26878	0.101	25855	0.143	37831	0.085	0.593	25	21.3	6278		
97C04961	22700	0.072	16231	0.065	17855	0.064	14848	0.077	20975	0.046	0.323	25	65.2	7741		
97C04962	26352	0.085	9363	0.034	12986	0.044	14697	0.076	16793	0.036	0.276	25	18.2	2811		
97C04963	35739	0.121	20144	0.084	23072	0.085	18957	0.101	17516	0.038	0.429	10	39	2345		
97C04964	56031	0.213	28217	0.124	32755	0.127	30535	0.173	46012	0.104	0.742	25	19.7	7695		
97C04965	53758	0.202	18713	0.077	30272	0.116	31285	0.178	44246	0.100	0.672	25	23.6	7334		
97C04967	42239	0.148	24278	0.104	26675	0.100	21807	0.118	36086	0.081	0.551	25	41.7	7879		
97C04968	41396	0.145	23948	0.102	26444	0.099	21938	0.119	37411	0.084	0.549	25	39.5	7560		
97C04969	41415	0.145	23894	0.102	26066	0.098	21178	0.114	35395	0.079	0.538	25	15.1	5278		
97C04969MS	39515	0.137	23815	0.102	25576	0.096	21150	0.114	35007	0.078	0.526	25	15.1	5164		
97C04969MSD	38837	0.134	22444	0.095	24900	0.093	20288	0.109	33381	0.074	0.505	25	15.1	4954		
97C04970	42924	0.151	23345	0.099	28174	0.107	24307	0.134	32030	0.071	0.562	10	39.1	3075		
97C04971	-0.004		-0.006		-0.005		-0.004		0.000	-0.019	2	34.7	-19			
97C04972	42955	0.151	9002	0.032	17101	0.060	25731	0.142	32831	0.073	0.460	25	42.7	6685		
97C04973	21677	0.068	13945	0.055	13802	0.047	9952	0.050	9904	0.021	0.241	25	46.6	3757		
97C04974	30537	0.101	17761	0.072	19859	0.072	15267	0.080	27620	0.061	0.385	25	48	6173		
97C04975	38148	0.131	22903	0.097	24264	0.090	18483	0.098	18000	0.039	0.456	25	49.9	7579		
97C04976	5197	0.012	1186	-0.007	2849	0.006	2504	0.009	3546	0.0080	0.034	-2000	52.8	47389- 61800		
97C04977	32865	0.110	19173	0.079	21609	0.079	17110	0.090	26416	0.058	0.416	25	48.5	6733		
97C04978	41247	0.144	22376	0.094	24225	0.090	22432	0.122	36860	0.082	0.533	25	38.1	7172		
97C04979	57108	0.219	29023	0.128	36270	0.143	32584	0.186	62193	0.145	0.822	2	50.6	1109		

AR1260

F.V.= 10 mL

SDG# LLLED	AR1260-1		AR1260-2		AR1260-3		AR1260-4		AR1260-5		TOTAL		FINAL	
	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	in extract	DF	%M	CONC. ug/Kg
BLANK		-0.001		0.000		-0.001		-0.002		0.000	-0.004	1	0	-1
QC-141985-1	37949	0.094	21199	0.100	27511	0.103	52678	0.094	21333	0.097	0.489	1	0	163
97C04969	55631	0.327	10230	0.058	176158	0.937	76931	0.297	88943	0.318	1.937	10	15.1	7606
97C04969MS	50586	0.297	10350	0.059	156629	0.849	71075	0.274	79059	0.282	1.761	10	15.1	6912
97C04969MSD	53747	0.316	11391	0.065	162647	0.877	73838	0.285	84299	0.301	1.843	10	15.1	7236
97C04969	2095	0.011	17777	0.028	21519	0.057	34578	0.195	3083	0.010	0.302	25	15.1	2964
97C04969MS	2662	0.014	19092	0.030	22442	0.060	34461	0.194	3934	0.013	0.312	25	15.1	3062
97C04969MSD	2814	0.015	18690	0.030	21496	0.057	33928	0.191	4102	0.014	0.307	25	15.1	3011
														Net Wt.
														6457
														5870
														6143
														2517
														2600
														2558



3-1
PESTICIDES
MS and MSD RECOVERY

05-Dec-1997 16:49
Page 1 of 1
Report Number: 97-00008

Client Name: Roy F. Weston Site: NA
Project: NA SDG No.: VVVND1 DCL Set ID: 97C-0423-01
Matrix: SOIL Analysis Method: 8080A
Matrix Spike - Client Sample No. WWWNS1 DCL Sample No.: 97C04969MS

MS Concentration Units: ug/Kg

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	REC QC LIMITS
Aroclor 1016	167.	1500	1270	31.7 *	44.0-140.
Aroclor 1260	167.	3100	(2600)	49.5	48.1-146.

1:25 wet wt. basis

MSD Concentration Units: ug/Kg

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD % REC	% RPD	QC LIMITS	RPD	REC
Aroclor 1016	167.	1230	3.15 *	3.80	15.8	44.0-140.	
Aroclor 1260	167.	(2560)	24.0 *	1.65	45.9	48.1-146.	

* Values outside of contract required QC limits.

1:25

RPD: 0 out of 2 outside limits.

Spike Recovery: 3 out of 4 outside limits.

FORM III CHROM-1

0031

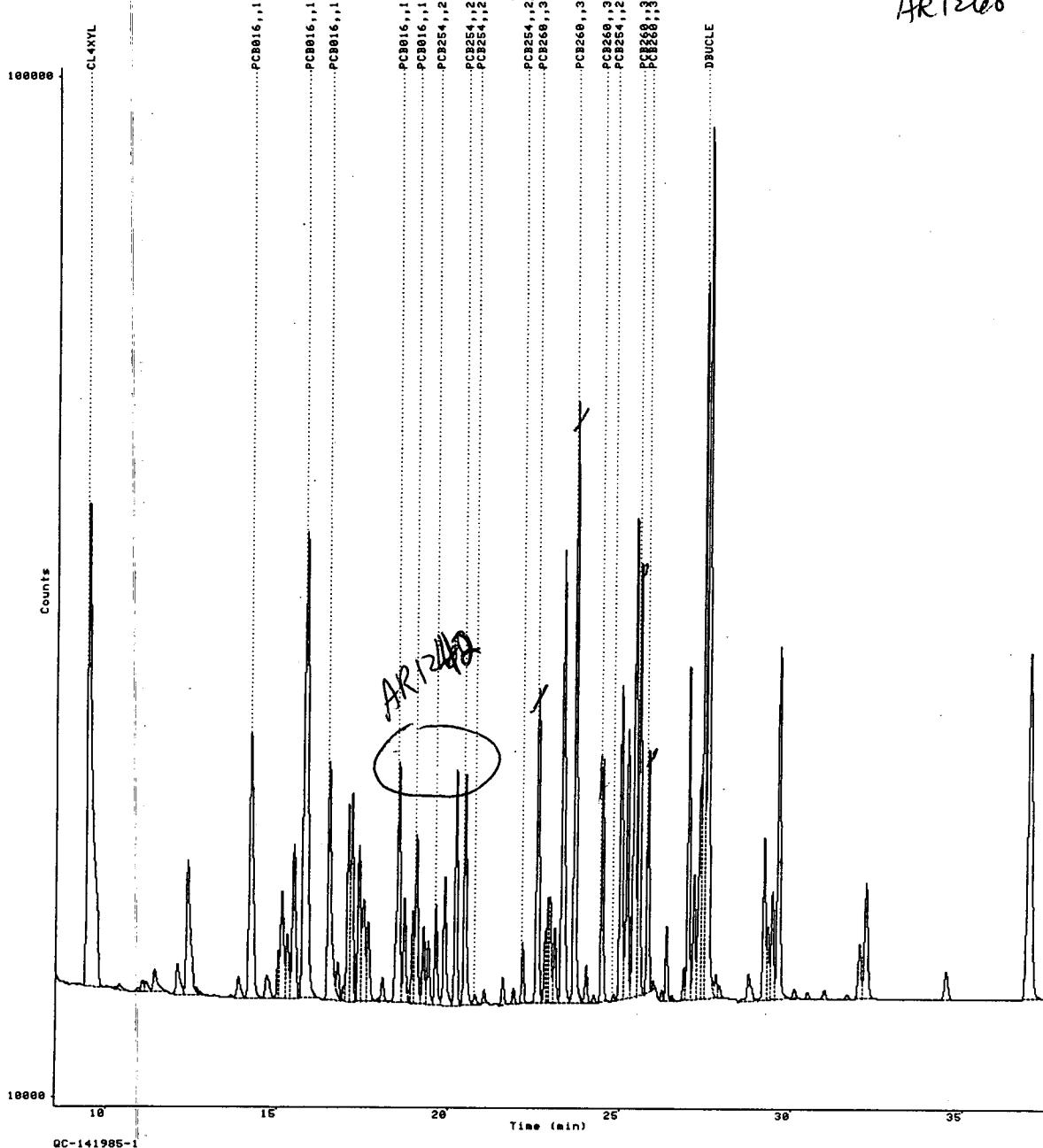
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DB-17

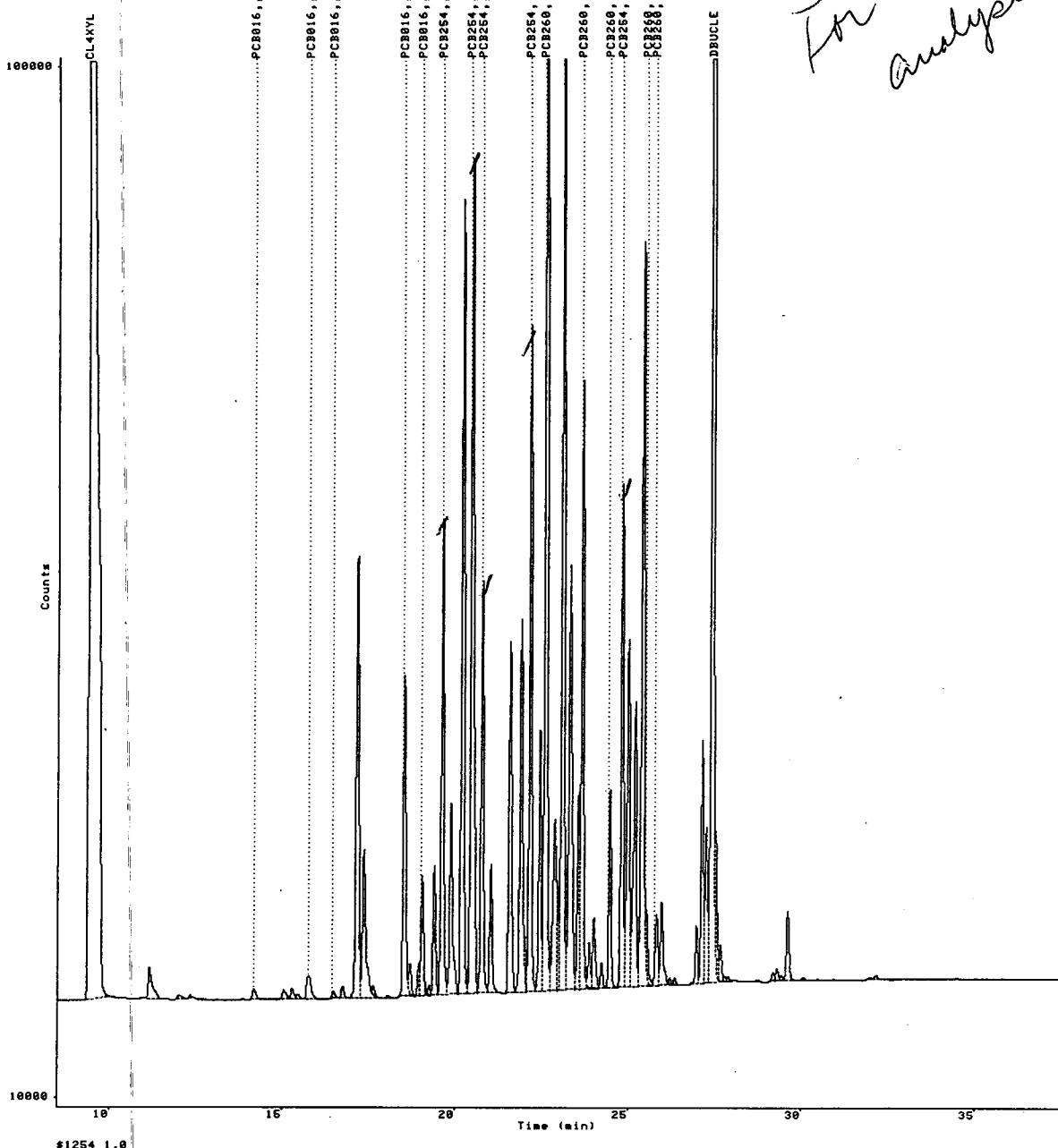
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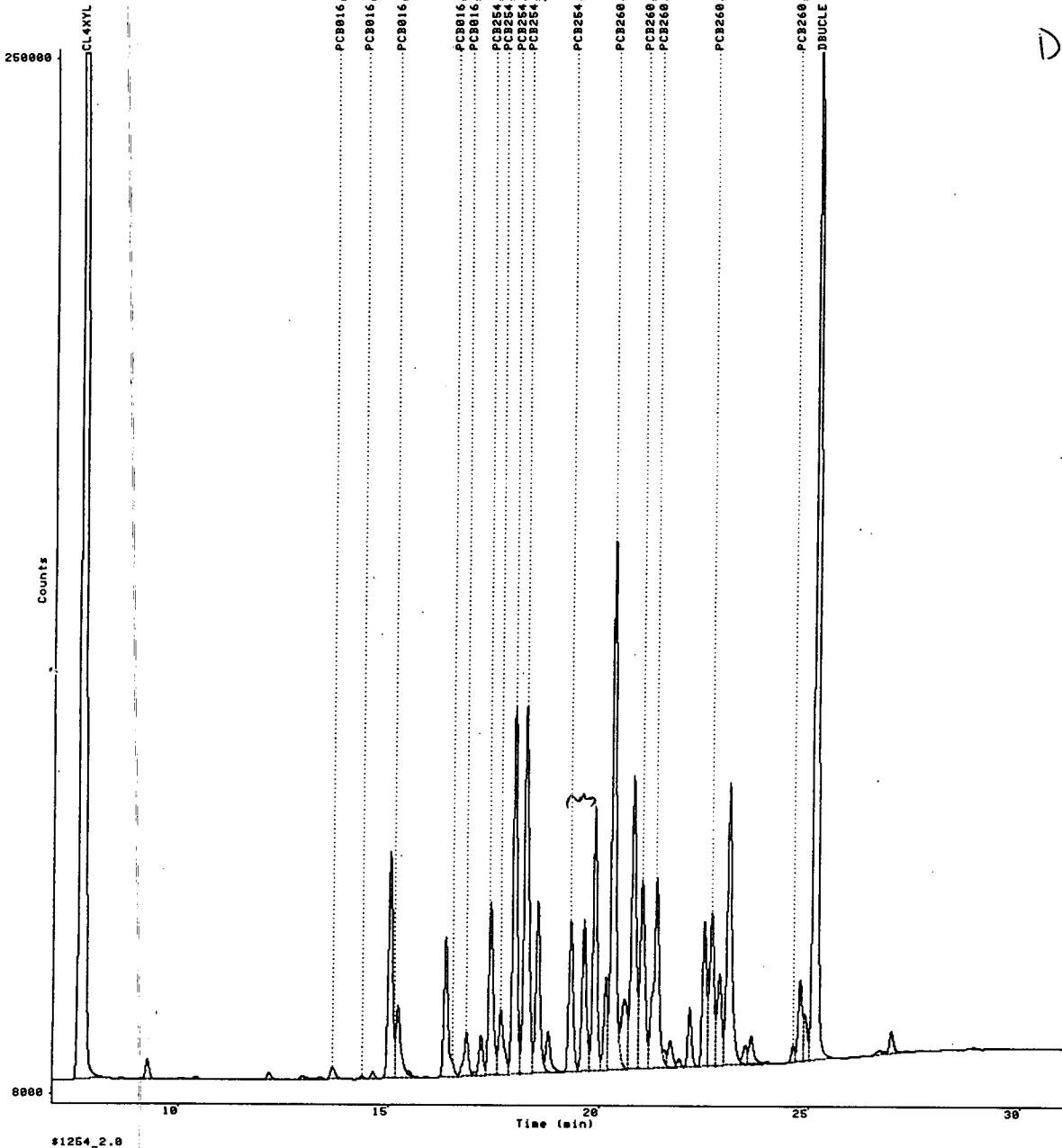
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AR1254

DB-608



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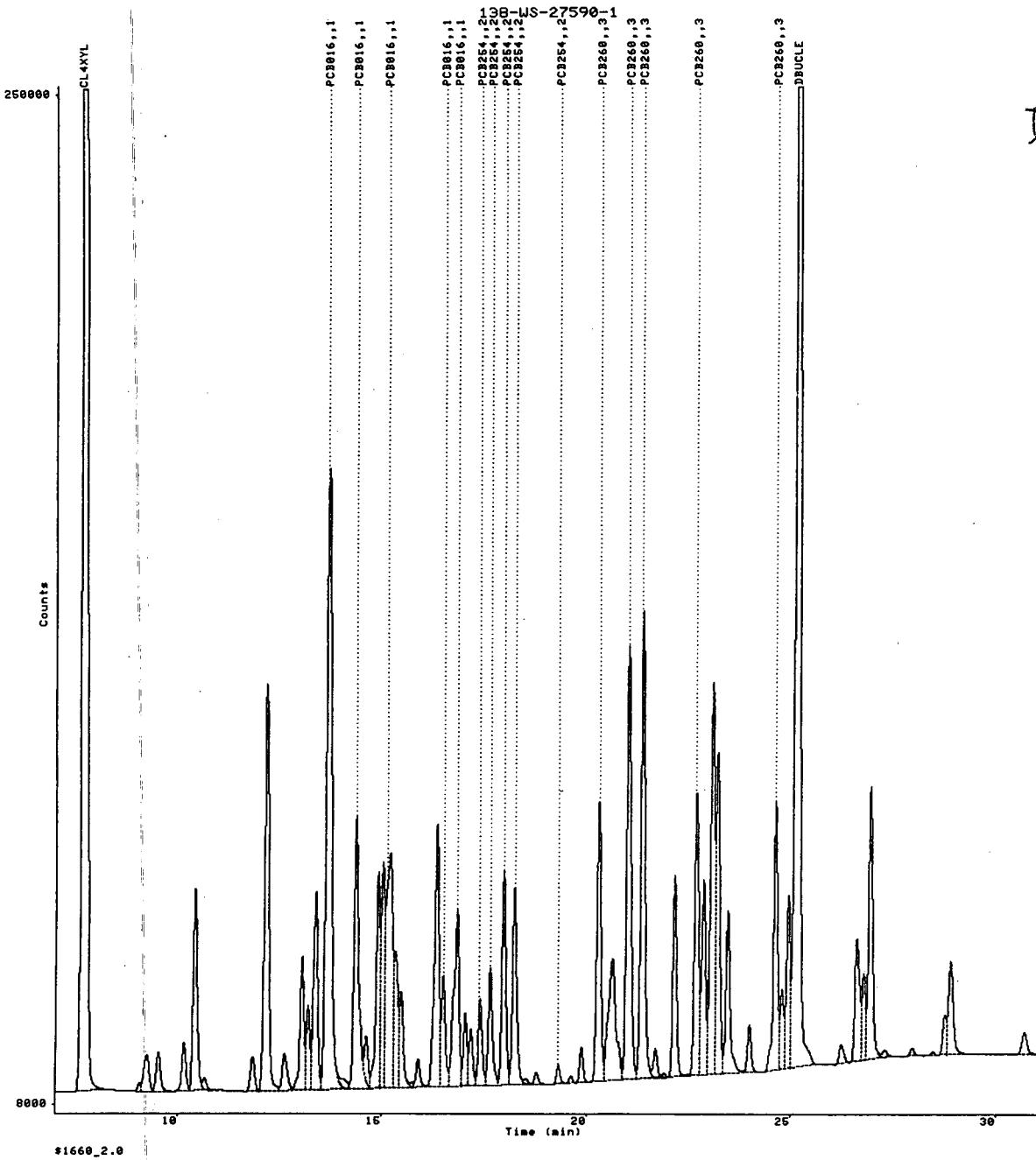
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AR1260

DB-608



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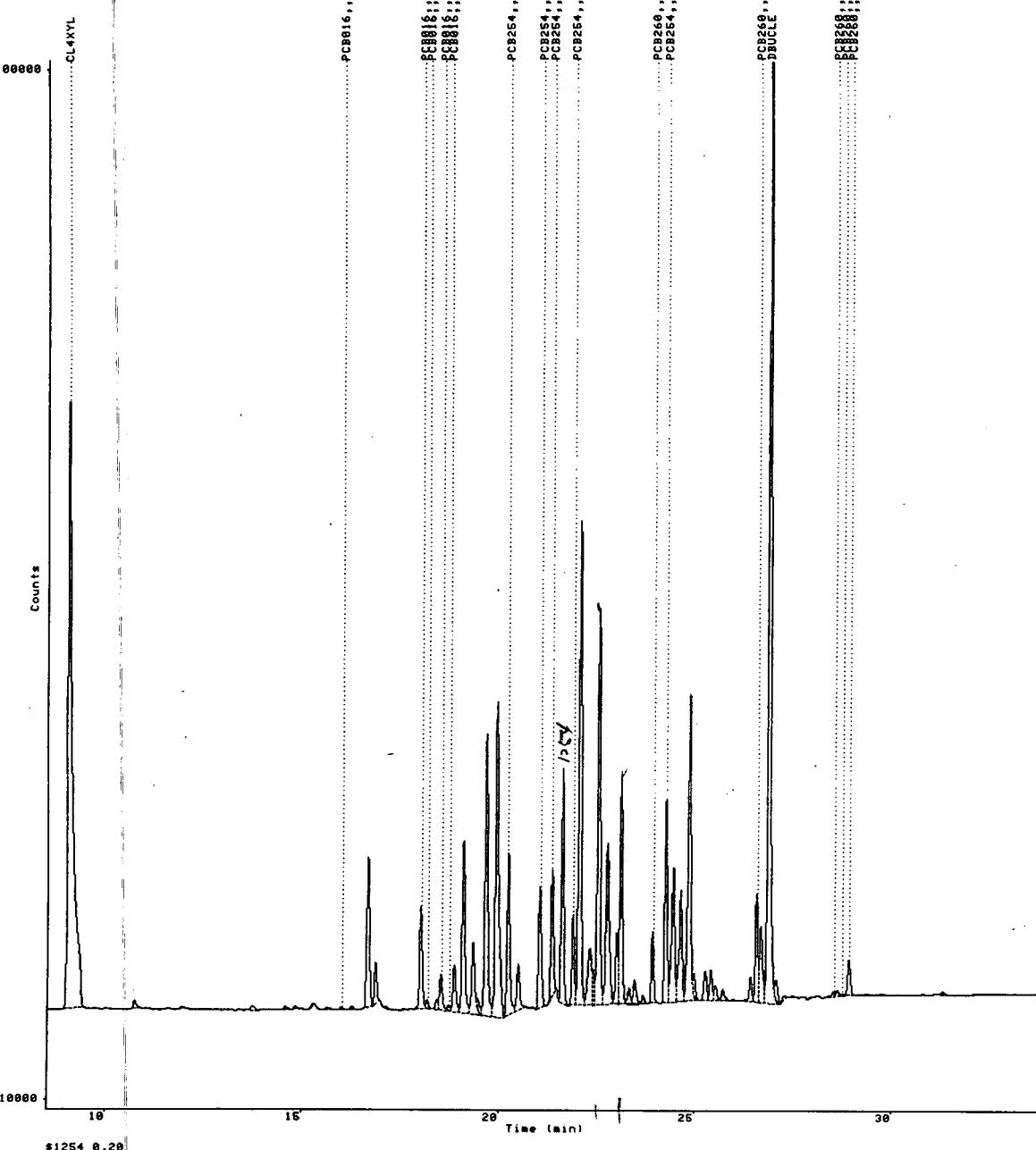
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DB-17



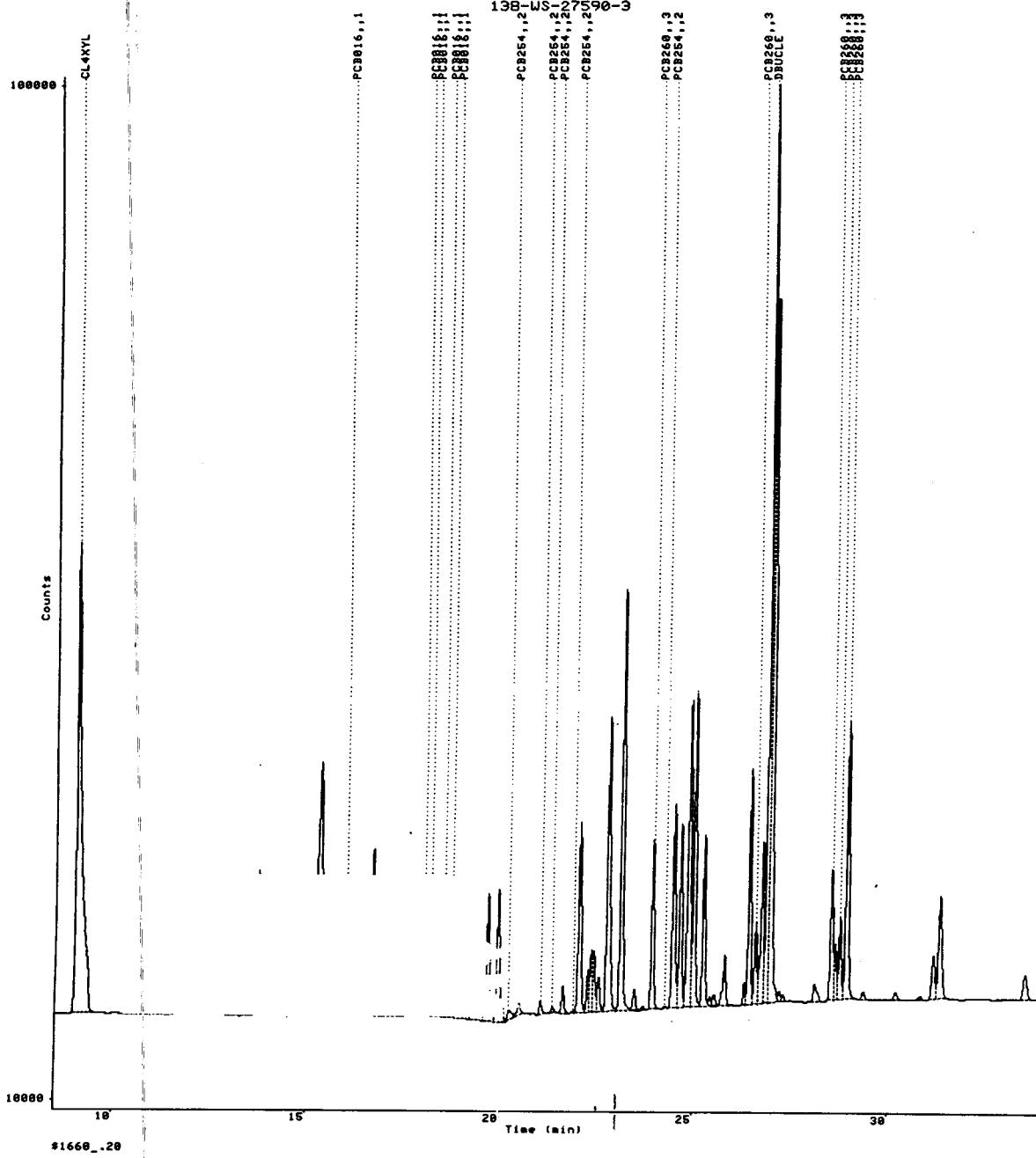
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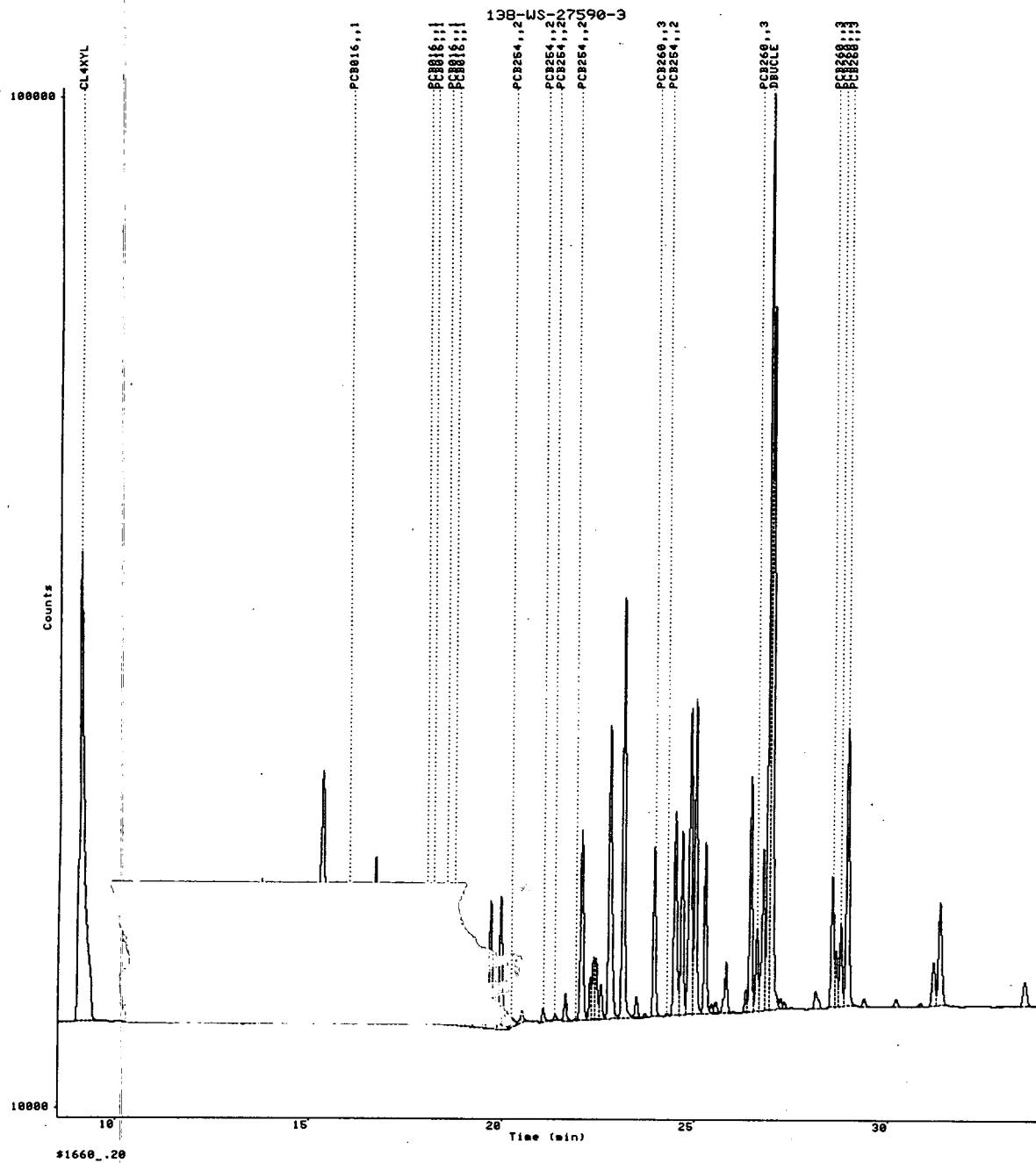


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0421